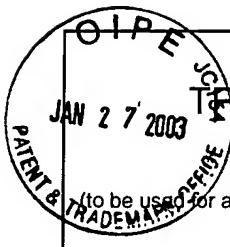


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Application Number	10/076,136
Filing Date	RECEIVED February 14, 2002
First Named Inventor	JAN 28 2003 Chien
Group Art Unit	1743
Examiner Name	TC 1700 Alexander
Total number of pages This Submission	100/13010

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> (in duplicate) <input type="checkbox"/> Fee Attached <input type="checkbox"/> No Fee Required <input type="checkbox"/> Preliminary Amendment <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Info. Discl. Stmt. (2 pages) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawings <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group <i>(Appeal Notice, Brief, Reply Brief)</i> <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) <i>(please identify below):</i> <div style="border: 1px solid black; padding: 5px;"> PTO Form 1449 (3 pages) 42 references Return Receipt Postcard </div>
Authorization to Charge Deposit Account Please charge Deposit Account No. 03-0177 for any additional fees associated with this paper or during the pendency of this application.		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Donald R. McKenna	Reg. No.	44,922
Signature			
Date	1/23/03		

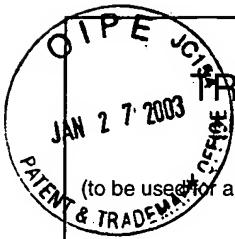
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1743

(Modified) PTO/SB/21 (12-97)
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Application Number	10/076,136
Filing Date	February 14, 2002
First Named Inventor	Chi n
Group Art Unit	1743
Examiner Name	Alexander
Total number of pages This Submission	100/13010
Attorney Docket No.	

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form (in duplicate)	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawings	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> No Fee Required	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Preliminary Amendment	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> After Final	<input type="checkbox"/> To Convert a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> PTO Form 1449
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> 3 references
<input checked="" type="checkbox"/> Info. Discl. Stmt. (2 pages)	<input type="checkbox"/> Request for Refund	<input type="checkbox"/> Search Report
<input type="checkbox"/> Certified Copy of Priority Document(s)	Authorization to Charge Deposit Account Please charge Deposit Account No. 03-0177 for any additional fees associated with this paper or during the pendency of this application.	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Donald R. McKenna	Reg. No.	44,922
Signature			
Date	1/21/03		

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Date: January 21, 2003	

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By January 23, 2003
Michelle Chan
Michelle Chan

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TC 1700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RING-LING CHIEN et al.

Application No.: 10/076,136

Filed: February 14, 2002

For: MICROFLUIDIC SYSTEMS WITH
ENHANCED DETECTION SYSTEMS

Examiner: L. Alexander

Art Unit: 1743

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR § 1.97 AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. A copy of each is enclosed.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

The undersigned hereby certifies that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

Applicants believe that no fee is required for submission of this statement as a proper certification pursuant to 37 CFR §1.97(e) is included above. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,



Donald R. McKenna
Reg. No. 44,922

CALIPER TECHNOLOGIES CORP.
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
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Sheet 1 of 3

		Complete if Known	
Application Number	10/076,136		
Filing Date	February 14, 2002	JAN 28 2003	
First Named Inventor	Chien		
Art Unit	1743		
Examiner Name	Al xander		
Attorney Docket Number	100/13010		

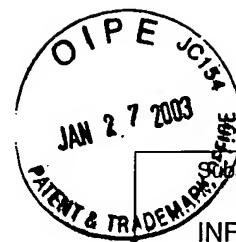
U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number - Kind Code (if known)			
	AA	US-5,593,838	01-14-1997	Zanzucchi et al.	
	AB	US-5,716,852	02-10-1998	Yager et al.	
	AC	US-5,858,187	01-12-1999	Ramsey et al.	
	AD	US-5,932,100	08-03-1999	Yager et al.	
	AE	US-6,001,229	12-14-1999	Ramsey	
	AF	US-6,042,709	03-28-2000	Parce et al.	
	AG	US-6,062,261	05-16-2000	Jacobson et al.	
	AH	US-6,120,666	09-16-2000	Jacobson et al.	
	AI	US-6,235,471	05-22-2001	Knapp et al.	
	AJ	US-6,280,589	08-29-2001	Manz et al.	
	AK				
	AL				

FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	AM				
	AN				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
	AO	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights," Anal. Chem. (1993) 65: 2637-2642			
	AP	EFFENHAUSER, C.S. et al., "High Speed Separation of Anitsense Oligonucleotides on a Micromachined Capillary Electrophoresis Device," Anal. Chem. (1994) 66: 2949-2953			
	AQ	EFFENHAUSER, C.S. et al., "Integrated Capillary Electrophoresis on Flexible Silicone Microdevices: Analysis of DNA Restriction Fragments and Detection of Single DNA Molecules on Microchips," Anal. Chem. (1997) 69: 3451-3457			

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/076,136
(use as many sheets as necessary)				Filing Date	February 14, 2002 JAN 28 2003
Sheet	of	3		First Named Inventor	Chien
				Art Unit	1743
				Examiner Name	Alexander TC 1700
				Attorney Docket Number	100/13010

AR	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <i>Anal. Chem.</i> (1994) 66: 177-184
AS	FISTER, J.C. III et al., "Counting Single Chromophore Molecules for Ultrasensitive Analysis and Separations on Microchip Devices," <i>Anal. Chem.</i> (1998) 70: 431-437
AT	HADD, A.G. et al., "Microfluidic Assays of Acetylcholinesterase," <i>Anal. Chem.</i> (1999) 71: 5206-5212
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AV	HARRISON, J. et al., "Towards Miniaturized Electrophoresis and Chemical Analysis Systems on Silicon: An Alternative to Chemical Sensors*," <i>Sensors and Actuators B</i> (1993) 10: 107-116
AW	HARRISON, J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> (1993) 261: 895-897
AX	HARRISON, D.J. et al., "Integrated Electrophoresis Systems for Biochemical Analyses," <i>Solid-State Sensor and Actuator Workshop</i> (1994) 21-24
AY	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <i>Anal. Chem.</i> (1994) 66:1107-1113
AZ	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <i>Anal. Chem.</i> (1994) 66: 1114-1118
BA	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <i>Anal. Chem.</i> (1994) 66: 2369-2373
BB	JACOBSON, S.C. et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <i>Anal. Chem.</i> (1994) 66: 4127-4132
BC	JACOBSON, S.C. et al., "Microchip Electrophoresis with Sample Stacking," <i>Electrophoresis</i> (1995) 16: 481-486
BD	JACOBSON, S.C. et al., "Integrated Microdevice for DNA Restriction Fragment Analysis," <i>Anal. Chem.</i> (1996) 68: 720-723
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BF	JACOBSON, S.C. et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," <i>Anal. Chem.</i> (1999) 71: 4455-4459
BG	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <i>Sensors and Actuators</i> (1990) B1: 244-248

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A/PTO				Complete if Known
INFORMATION DISCLOSURE				Application Number
STATEMENT BY APPLICANT				10/076,136
(use as many sheets as necessary)				Filing Date
				February 14, 2002
				First Named Inventor
				Chien
				Art Unit
				1743
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Sheet	of	3	Attorney Docket Number	100/13010

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	BH	MANZ, A. et al., "Micromachining of Monocrystalline Silicon and Glass for Chemical Analysis Systems," Trends in Analytical Chemistry (1991) 10:144-149
	BI	MANZ, A. et al., "Planar Chips Technology for Miniaturization and Integration of Separation Techniques into Monitoring Systems," Journal of Chromatography (1992) 593:253-258
	BJ	MANZ, A. et al., "Parallel Capillaries for High Throughput in Electrophoretic Separations and Electroosmotic Drug Discovery Systems," International Conference on Solid-State Sensors and Actuators (1997) 915-918
	BK	McCORMICK, R.M. et al., "Microchannel Electrophoretic Separations of DNA in Injection-Molded Plastic Substrates," Anal. Chem. (1997) 69: 2626-2630
	BL	MOORE, A.W. et al., "Microchip Separations of Neutral Species via Micellar Electrokinetic Capillary Chromatography," Anal. Chem. (1995) 67: 4184-4189
	BM	SALIMI-MOOSAVI, H. et al., "Biology Lab-on-a-Chip for Drug Screening," Solid-State Sensor and Actuator Workshop (1998) 350-353
	BN	UEDA, M. et al., "Imaging of a Band for DNA Fragment Migrating in Microchannel on Integrated Microchip," Materials Science and Engineering C (2000) 12:33-36
	BO	WANG, C. et al., "Integration of Immobilized Trypsin Bead Beds for Protein Degestions within a Microfluidic Chip Incorporating Capillary Electrophoresis Separations and an Electrospray Mass Spectrometry Interface," Rapid Commun. Mass Spectrom. (2000) 14:1377-1383
	BP	WOOLLEY, A.T. et al., "Ultra-High-Speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips," Proc. Natl. Acad. Sci. USA (1994) 91:11348-11352
	BQ	WOOLLEY, A.T. et al., "Functional Integration of PCR Amplification and Capillary Electrophoresis in a Microfabricated DNA Analysis Device," Anal. Chem. (1996) 68: 4081-4086
	BR	WOOLLEY, A.T. et al., "High-Speed DNA Genotyping Using Microfabricated Capillary Array Electrophoresis Chips," Anal. Chem. (1997) 69:2181-2186
	BS	WOOLLEY, A.T. et al., "Capillary Electrophoresis Chips with Integrated Electrochemical Detection," Anal. Chem. (1998) 70: 684-688
	BT	ZHANG, B. et al., "Microfabricated Devices for Capillary Electrophoresis-Electrospray Mass Spectrometry," Anal. Chem. (1999) 71:3258-3264
	BU	

Examiner Signature		Date Considered	
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January 21, 2003
By Michelle Chan
Michelle Chan

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RING-LING CHIEN et al.

Application No.: 10/076,136

Filed: February 14, 2002

For: MICROFLUIDIC SYSTEMS WITH
ENHANCED DETECTION SYSTEMS

Examiner: L. Alexander

Art Unit: 1743

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR § 1.97 AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. A copy of each is enclosed. Also enclosed is a copy of the international search report for the related PCT application.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

The undersigned hereby certifies that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

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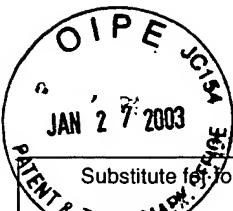
Respectfully submitted,



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JAN 27 2003

(Modified) PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**
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Sheet 1 of 1

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Application Number	10/076,136
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First Named Inventor	Chien
Art Unit	1743
Examiner Name	Al xander

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U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No.	Document No.	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number - Kind Code (if known)		
	AA	US-5,928,880	07-27-1999	Wilding et al.
	AB			
	AC			
	AD			
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	AG			
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	AJ			
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FOREIGN PATENT DOCUMENTS					
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code - Number - Kind Code (if known)			
	AM	WO-9944217	09-02-1999	Caliper	
	AN	WO-0120309	03-22-2001	Aclara	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
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	AP				
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